

ABSTRACT

093747-072004
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5 A system for providing a graphics tool access to a computer graphics
system to evaluate and control a graphics application executing on the computer
graphics system. The system includes application program interface (API) event
generators for performing predetermined operations relating to a graphics library
function call and for generating a hook event containing results of the
predetermined operations; dispatch table manger for selecting an active dispatch
table from a normal operations dispatch table having function pointer to the
graphics library functions and a hooks dispatch table having pointer to the API
event generators; and hook event manager for enabling and configuring selected
ones of the API event generators in response to a graphics tool event request. The
system further includes internal event generators, integrated along various
locations of a graphics pipeline managed by the graphics library, for performing
predetermined diagnostic operations in the graphics system. In this embodiment
the hook event manager also enables and configures selected ones of the internal
15 event generators.